

METHOD AND APPARATUS FOR REDUCING INBOUND TRAFFIC CONGESTION IN A VOICE FRAME NETWORK

ABSTRACT OF THE DISCLOSURE

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The invented method of reducing voice frame network inbound traffic congestion first determines whether a first defined threshold level of inbound voice and data traffic is reached. If so, then the method discriminates between inbound voice and data traffic within an input queue. Discrimination is by analyzing the size of each packet and comparing it to predefined packet size criteria and/or by analyzing the rate at which packets of inbound voice and data traffic arrive in the input queue and comparing it to predefined arrival rate criteria. Finally, the method frees space within the input queue for use by inbound voice traffic until the first defined threshold level of inbound traffic no longer is reached. The freeing of space includes selectively discarding data, which discarding preferably continues until a second defined threshold level of inbound traffic is reached, the second defined threshold level being less than the first defined threshold level. The invented apparatus includes decision logic for making such a determination and queue management logic responsive thereto for such discrimination and freeing of space. A user interface preferably is provided that permits a user to define the first and second defined threshold levels, which are implementation- and application-dependent.